



SFOBB – SAS Project
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CCO SUBMITTAL

SFOBB SAS Project # 04-0120F4

To: Caltrans Construction
333 Burma Road
Oakland, CA 94607

Date: July 18, 2007

Contract No: 04-0120F4
04-SF-80-13.2, 13.9

Attn: Rick Morrow

Job Name: SAS Project – SFOBB

CCO No.: 26 (Update 07-18-07)

Subject: Wind Vortex Generator Plates

CCO Comments:

*** **NOTE:** Per Caltrans request, CCO 26 (Update 07-18-07) is being issued to include erection of the Wind Vortex Generator Plates into the SAS Contract. ***

The wind vortex generator plate material is being substituted from Acrylic Plexiglas G to Steel. The original Plexiglas plates offered the most cost-effective and durable transparent material solution for the OBG during the design phase. Based upon a re-evaluation of the criteria used to define the Plexiglas design, transparency has been deemed to be a minor issue in comparison to durability which is resolved with the steel plate substitution.

Wind vortex generator plates shall be cleaned and painted in accordance with the provisions of "Clean and Paint Structural Steel," of the special provisions. The Cleaning/Painting provision for the wind vortex generator plates is the same as the OBG, thereby facilitating maintenance work.

Below, please find a list of drawings with their associated RFIs that have been included in this CCO:

Sheet No.	Reference
874R1	Material Substitution
875R1	RFC 13R1, Material Substitution

Impact to Scope of Work: None.

Impact to Quantities:

Item	Change
Wind Vortex Generator Plates (Acrylic Plexiglas)	- 82 ea
Wind Vortex Generator Plates (Steel)	44,800 kg

CCO Attachments:

Revised Plan Sheets: 874R1, 875R1

Reviewed By: _____ J. Duxbury, A. Sanjines

QA/QC By: _____ M. Nader

CC: File: TYLIN/MN-

10-1.85 WIND VORTEX GENERATOR PLATES

This work shall consist of furnishing, ~~packaging~~ and ~~delivering~~ erecting wind vortex generator plates ~~manufactured from transparent Acrylic Plexiglas G plates~~ as shown on the plans, as specified in these special provisions, and as directed by the Engineer. ~~Installation of the wind vortex generator plates will not be required.~~

Wind vortex generator plates shall ~~be manufactured from transparent Acrylic Plexiglas G or equal conforming to Federal Standard LP 391, Type 1, Grade C.~~ The Contractor shall furnish to the Engineer a Certificate of Compliance, in conformance with the provisions in Section 6 1.07, "Certificates of Compliance," of the Standard Specifications, for wind vortex generator plates. The certificate shall state that the wind vortex generator plates meet the requirements of Federal Standard LP 391, Type 1, Grade C. ~~Certificates shall be submitted at least two months prior to delivery of the wind vortex generator plates.~~ conform to Section 55 "Steel Structures" of the Standard Specifications.

~~Surfaces cut during manufacture shall be machined. Edges and corners shall be machined to a radius of 2 mm. Holes shall be drilled and drilled hole edges machined to a radius of 2 mm. Drilled holes and all machined surfaces shall be finished to ANSI 2000.~~

Wind vortex generator plates shall be cleaned and painted in accordance with the provisions of "Clean and Paint Structural Steel," of these special provisions. ~~Finish coats will not be required.~~

~~The Contractor shall deliver the manufactured wind vortex generator plates to the Engineer at a location to be determined by the Engineer. Said location will be within 25 km of the San Francisco-Oakland Bay Bridge Toll Plaza. Wind vortex generator plates shall be delivered to the Engineer within six months prior to completion of the work. The Contractor shall notify the Engineer in writing at least two months prior to delivery of wind vortex generator plates.~~

~~Wind vortex generator plates shall be packaged in boxes for protection against physical damage and exposure during shipping and storage. Each wind vortex generator plate within a package shall be protected to prevent damage from adjacent wind vortex generator plates. Wind vortex generator plates shall be packaged to prevent shifting during shipping. The shipping package shall be clearly marked with a statement that the package contains wind vortex generator plates for the San Francisco-Oakland Bay Bridge, the number of wind vortex generator plates contained in the package, the weight of the package, and the date packaged.~~

MEASUREMENT AND PAYMENT

Wind vortex generator plates will be measured by the ~~unit~~ kilogram.

The contract ~~unit~~ price paid per kilogram for wind vortex generator plates shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in ~~manufacturing~~ fabricating, cleaning and painting, furnishing, and ~~delivering~~ erecting wind vortex generator plates ~~to the location specified by the Engineer, including packaging and protecting from damage~~, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.